480543

Underground Storage Tank
No Further Action Request
I-70 and Brighton Boulevard
Parcel 49
Denver, Colorado

WALSH Project Number: 3023-010
March 1, 1999

Walsh

Environmental Scientists and Engineers, Inc.

12(m)

Established 1979

Underground Storage Tank
No Further Action Request
I-70 And Brighton Boulevard
Parcel 49
Denver, Colorado

March 1, 1999

Prepared for:

Mr. Steve Sherman
Region VI Environmental Services
2000 South Holly Street
Denver, CO 80222

Prepared by:

Vincent P. Secondo, G.I.T.
Staff Geologist

Reviewed by:

Stanley C. Spencer, REM, CGWP
Principal Geoscientist

Submitted by

WALSH ENVIRONMENTAL SCIENTISTS AND ENGINEERS, INC.
4888 Pearl East Circle, Suite 108
Boulder, Colorado 80301
(303) 443-3282

WALSH Project Number: 3023-010

Site Street Address I-70/Brighton Boulevard, Parcel 49 City Denver

NO FURTHER ACTION REQUEST REPORT

What type of product(s) was(were) stored in the tank(s). Check all applicable types, list hazardous substances and other products in the "Other" column.

Leaded Gasoline	Unleaded Gasoline	Diesel	Waste Oil	Other
				Fuel Oil

Is there evidence of any released hazardous substance on the site? Yes **X** No (check one). **If yes, contact the Colorado Department of Public Health and Environment.**

List the highest concentration of the following constituents found.

	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Xylenes (ppb)	BTEX (ppb)	TVPH (ppm)	TEPH (ppm)	TPH (ppm)	Oil & Grease (ppm)	Other** (ppm)
Soil	< 5	< 5	< 5	< 5	< 20	26*	4,800*	4,826*	NA	YES
Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NO

*** Concentrations represent samples taken from spoils pile in-situ. Soil has been removed from site.**
**** Analytical Results for "Other" Constituents are included in Appendix A, Table 4 & 5**

If free product is discovered, or if any of the contaminant concentrations listed above exceed the Risked Based Screening Levels (RBSLs) in the Colorado Department of Labor and Employment, Oil Inspection, Petroleum Storage Tank Owner/Operator Guidance, do not fill out this form, contact the OIS immediately to report a release, and complete the Initial Site Characterization Report.

Official Use Only **Facility ID #**

By:_____

Site Street Address I-70/Brighton Boulevard, Parcel 49 City Denver

NO FURTHER ACTION REQUEST REPORT

SITE INFORMATION

Site Name: Parcel 49, I-70/Brighton Boulevard	**Type of Business on Site:** Transportation	
Site Address: 44th Street/Brighton Boulevard, Parcel 49 UST 1		
City: Denver	**County:** Denver	**Zip Code:**
Phone Number:	**Fax Number:**	
Site Contact Person: Steve Sherman		

OWNER/OPERATOR INFORMATION

Name: Colorado Department of Transportation		
Address: 2000 South Holly Street		
City: Denver, Colorado	**State:** CO	**Zip Code:** 80222
Phone Number:	**Fax Number:**	
Contact Person: Steve Sherman		

ENVIRONMENTAL CONSULTANT INFORMATION

Name: Walsh Environmental Scientists and Engineers, Inc.		
Address: 4888 Pearl East Circle. Suite 108		
City: Boulder	**State:** CO	**Zip Code:** 80301-2475
Phone Number: (303) 443-3282	**Fax Number:** (303)443-0367	
Contact Person: Stan Spencer		

Date Report Was Completed: 02/26/99

INSTRUCTIONS FOR COMPLETING REPORT: Fill out each section completely. Submit Appendices A, B, and C and, if applicable, Appendix D with this form. If there is no applicable answer to a question, insert "NA" rather than leaving the space blank. Distances are generally measured in feet (ft). "Below ground surface" is abbreviated as "bgs."

Limit your responses to the suggested space. If you are using the computer version of this form, the bracketed number after each question (e.g., [2]) tells the number of suggested lines for each answer. Do not use bold type when answering, use normal typeface. Insert new rows and delete rows in tables as required. If you are completing this form by hand and need additional room, please attach additional sheets as absolutely necessary - with the question repeated and the numbers of the answers matching the numbers on this form. Contact the Oil Inspection Section if you want this form on a computer disk. Call 303-321-4164 for a copy of the regulations (commodity # 615-82-44-0899) or the Guidance Document (commodity #615-82-44-0626).

TABLE OF CONTENTS

Site Street Address I-70/Brighton Boulevard, Parcel 49 City Denver

A. SITE HISTORY INFORMATION

1. List the history of storage tank operations on the property on Table 1 of Appendix A as shown.

2. List dates and describe any suspected releases which have occurred on the property prior to this closure request.

Date of Suspected Release			Source/Cause of Release (Include Tank Number from Table 1 in Appendix A, if applicable)	No Further Action Letter Issued? (Yes/No)*
NA	NA	NA	NA	NA

*** If No, what activities are ongoing to remediate the release(s)?**

B. STORAGE TANK REMOVAL/CLOSED IN PLACE

1. How many tanks were removed from the ground during this investigation?
One

2. How many tanks were closed in place during this investigation?
None

3. List the actions taken to mitigate fire, explosion and vapor hazards (if applicable).
Combustible Gas Indicator Monitoring of tank and excavation atmosphere.

4. List any permits obtained.

Permit Number	Date	Issuing Agency	Type of Permit
Notification Letter to OIS, re:UST Removal, 01/11/99			

5. For all tanks removed or closed in place during this investigation complete the following table. Tank Number information comes from Table 1 of Appendix A.

Tank Number	Tank Dimensions (height x width) (ft)	Depth to Top of Tank (ft)	Dates of Change in Service	Previous Product Stored
1	5'4" x 18	2	Unknown	Fuel Oil

6. How were the contents of the tank(s) disposed?
Pumped out and disposed of by ThermoFluids, Inc.

7. Describe the condition of the tank(s) on removal (make particular note of damage to, corrosion of, or holes in, the tank(s)).
Tank 1 showed sings of rusting and approximately a 2 foot diameter hole near the top. Rust spots and corrosion noted.

8. If the tanks were closed in place:

a. **Was cleaning conducted in accordance with the most current regulations?**
☐ Yes ☐ No (check one) NA

b. **What inert solid material was used to fill the tank(s)?**
NA

C. CONFIRMATION SAMPLING

1. **Provide a map of the site as Figure 1 of Apppendix B.**

2. **Sample Screening Procedures and Results. List the results on Table 2 and Figures 2, 3 and 4 of the Appendices.**

a. **Was an organic vapor meter (OVM) used to screen soils?**
X Yes ☐ No (check one)

b. **What was the range of OVM readings?** 6 - 75 ppm

c. **What is the calibration frequency and method for the OVM?**
Prior to site work and sampling. 100 ppm isobutylene equivalency.

3. **Sampling (use a nationally recognized standard when performing sampling).**

a. **How many soil samples were submitted for laboratory analysis?** Four
List the results on Table 3 and Figures 2 and 3 of the Appendices.

b. **How many water samples were submitted for laboratory analysis?** None
List the results on Table 4 and Figures 2 and 4 of the Appendices.

3. **Observations of the Tank Excavation(s).**

Excavation Number	Length of Excavation (ft)	Width of Excavation (ft)	Depth of Excavation (ft)	Depth to Groundwater in the Excavation (ft bgs)
1	20	8	3	NA

4. **Tank Removal Soil and Excavation Water Sampling Procedures.**

a. **Rationale for selecting sampling locations within the tank excavation**

Excavation Number	Sample Number	Depth (ft bgs)	Rationale for Selecting Location
1	Tank 1, West End	7	To confirm presence of petroleum hydrocarbons along north end
1	Tank 1, Middle	7	To confirm presence of petroleum hydrocarbons at middle region
1	Tank 1, East End	7	To confirm presence of petroleum hydrocarbons along south end
1	Spoils Pile	-	To confirm presence of petroleum hydrocarbons from excavated soil to arrange for appropriate disposal

Site Street Address I-70/Brighton Boulevard, Parcel 49 City Denver

A. SITE HISTORY INFORMATION

1. **List the history of storage tank operations on the property on Table 1 of Appendix A as shown.**

2. **List dates and describe any suspected releases which have occurred on the property prior to this closure request.**

Date of Suspected Release			Source/Cause of Release (Include Tank Number from Table 1 in Appendix A, if applicable)	No Further Action Letter Issued? (Yes/No)*
NA	NA	NA	NA	NA

*** If No, what activities are ongoing to remediate the release(s)?**

B. STORAGE TANK REMOVAL/CLOSED IN PLACE

1. **How many tanks were removed from the ground during this investigation?**
   One
2. **How many tanks were closed in place during this investigation?**
   None
3. **List the actions taken to mitigate fire, explosion and vapor hazards (if applicable).**
   Combustible Gas Indicator Monitoring of tank and excavation atmosphere.
4. **List any permits obtained.**

Permit Number	Date	Issuing Agency	Type of Permit
Notification Letter to OIS, re:UST Removal, 01/11/99			

5. **For all tanks removed or closed in place during this investigation complete the following table. Tank Number information comes from Table 1 of Appendix A.**

Tank Number	Tank Dimensions (height x width) (ft)	Depth to Top of Tank (ft)	Dates of Change in Service	Previous Product Stored
1	5'4" x 18	2	Unknown	Fuel Oil

6. **How were the contents of the tank(s) disposed?**
   Pumped out and disposed of by ThermoFluids, Inc.
7. **Describe the condition of the tank(s) on removal (make particular note of damage to, corrosion of, or holes in, the tank(s)).**
   Tank 1 showed signs of rusting and approximately a 2 foot diameter hole near the top. Rust spots and corrosion noted.
8. **If the tanks were closed in place:**

b. **Briefly describe excavation soil sampling procedures.**
Samples were collected from the excavator bucket from each location and placed in 4-ounce, Teflon lined, glass jars in ice filled coolers under chain-of-custody until laboratory delivery.

c. **Briefly describe excavation groundwater sampling procedures.**
Ground water not encountered during site activities (Ground water table > 27 feet Bgs. Liquid sample was previously collected from the tank to arrange for appropriate Disposal.

5. **Other Sample Location Descriptions and Rationales (outside of the tank excavation(s), including borings and trenches).**

a. **How many soil borings (including monitoring wells) were completed?** NA

b. **How many trenches were completed?** NA

c. **Provide the following information for each soil sample taken outside of the tank excavation(s).**

Sample Number	Depth (ft bgs)	Rationale for Selecting Location
Spoils Pile, Tank 1	-	Petroleum odors and hydrocarbon staining were observed during excavating. Soil analytical data was needed to arrange for proper transport and disposal. Soil was removed from the site.

Include all geologic/lithologic information from borings and/or trenches in Appendix D (as specified in the instructions for Appendix D).

d. **Briefly describe soil sampling procedures.**

6. **Groundwater (outside the tank excavation(s)).**

a. **Was groundwater encountered during site work?** ☐ Yes **X No** (check one)

b. **Briefly describe groundwater sampling procedures.**
NA

7. **Sample Handling and Shipping Procedures.**

a. **Provide all information regarding sample handling and shipping as instructed in Appendix C.**

b. **All sampling equipment was decontaminated according to a nationally recognized standard. X Yes** ☐ No (check one)

c. **Decontamination procedures for sampling equipment (complete the following table if there is no QA/QC plan on file at the Oil Inspection Section or if there were variations from the plan).**

Equipment	Decontamination Method
All Walsh Sampling Equipment	Clean surgical gloves changed between sampling locations to help prevent cross contamination. Direct grab samples placed into jars. No sampling devices used.

Site Street Address I-70/Brighton Boulevard. Parcel 49 City Denver

CERTIFICATION

The undersigned certifies, under penalty of law, that the information submitted herein and in the Appendices is true, accurate and complete and no information required under current regulations or requested by the OIS has been omitted. Additionally, all work has been and will continue to be conducted in accordance with accepted industry standards/practice including Colorado statutes, regulations, and the Oil Inspection Section Guidance Documents. I am aware that misrepresentation of any of the above claims may result in penalties under C.R.S. § 8-20.5-107 or 108.

Owner's Signature (required) _____

Owner's Name and Title _____

Consultant's Signature 

Consultant's Name, Title, and Company Stanley C. Spencer, I.R. 5181, Principal Geoscientist, Walsh Environmental Scientists and Engineers, Inc.

APPENDIX A

TABLES

Site Street Address I-70/Brighton Boulevard, Parcel 49 City Denver

TABLE 1 - HISTORY OF STORAGE TANKS

Tank Number	Size (Gallons)	Tank Type (AST or UST)	Product	Date Installed	Date Removed	Date Closed in Place	Contamination Detected? (Yes or No)
1	3,000	UST	Fuel Oil	NA	01/13/99	NA	YES

Site Street Address I-70/Brighton Boulevard, Parcel 49 City Denver

TABLE 2 - SUMMARY OF ORGANIC VAPOR METER READINGS

Date of most recent OVM Calibration 01/13/99

Sample Location I.D.	Date	Sample Depth (ft)	OVM Reading (PPM)	**Sample Designation ***
Under North Side of Tank	01/13/99	6	75	
Under South Side of Tank	01/13/99	6	36	
Under West End of Tank	01/13/99	6	6	
Under East End of Tank	01/13/99	7	6	
Under Middle of Tank	01/13/99	7	2	
Under West End of Tank	01/13/99	7	7	

N/D = Not Detected
N/A = Not Analyzed
* If different from the number in column 1

Site Street Address I-70/Brighton Boulevard, Parcel 49 City Denver

TABLE 3 - SUMMARY OF LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES

Sample Number	Collection Date	Sample Depth (ft)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	BTEX (ppb)	MTBE (ppb)	TVPH (ppm)	TEPH (ppm)	TPH (ppm)	Oil & Grease (ppm)	Other analytes?* (Yes or No)
Tank 1 West End	01/13/99	10	< 5	< 5	< 5	< 5	< 20	NA	< 0.5	130	130	NA	NO
Tank 1 Middle	01/13/99	10	< 5	< 5	< 5	< 5	< 20	NA	2.6	310	312.6	NA	YES
Tank 1 East End	01/13/99	10	< 5	< 5	< 5	< 5	< 20	NA	< 500	4.6	4.6	NA	NO
*Spoils Pile	01/13/99	10	< 12.5	21	58	300	379	NA	110	4,800	4,910	NA	YES

Identify any sample results which exceed Risked Based Screening Levels (RBSLs) by presenting those results in bold typeface.

N/D = Less than the stated laboratory detection limit

N/A = Not Analyzed

- If "yes", list other analytes detected in a separate table

*** Spoils Pile removed from site**

TABLE 4 – SUMMARY OF "OTHER" ANALYTICAL RESULTS FOR SOIL SAMPLES (VOLATILE ORGANIC COMPOUNDS)

Sample Number	Collection Date	Sample Depth (ft)	Methylene Chloride (ppb)	Trichloroethene (ppb)	Toluene (ppb)	Xylenes (ppb)	1,2,4-Trimethylbenzene (ppb)
Tank 1 Middle	01/13/99	10	7.2	0.75	0.96	1.52	0.54

TABLE 5 – SUMMARY OF "OTHER" ANALYTICAL RESULTS FOR SOIL SAMPLES (WASTE CHARACTERISTICS)

identical results

Sample Number	Collection Date	Sample Depth (ft)	Methylene Chloride (ppb)	Trichloroethene (ppb)	Toluene (ppb)	Xylenes (ppb)	1,2,4-Trimethylbenzene (ppb)
Spoils Pile	01/13/99	10	7.2	0.75	0.96	1.52	0.54

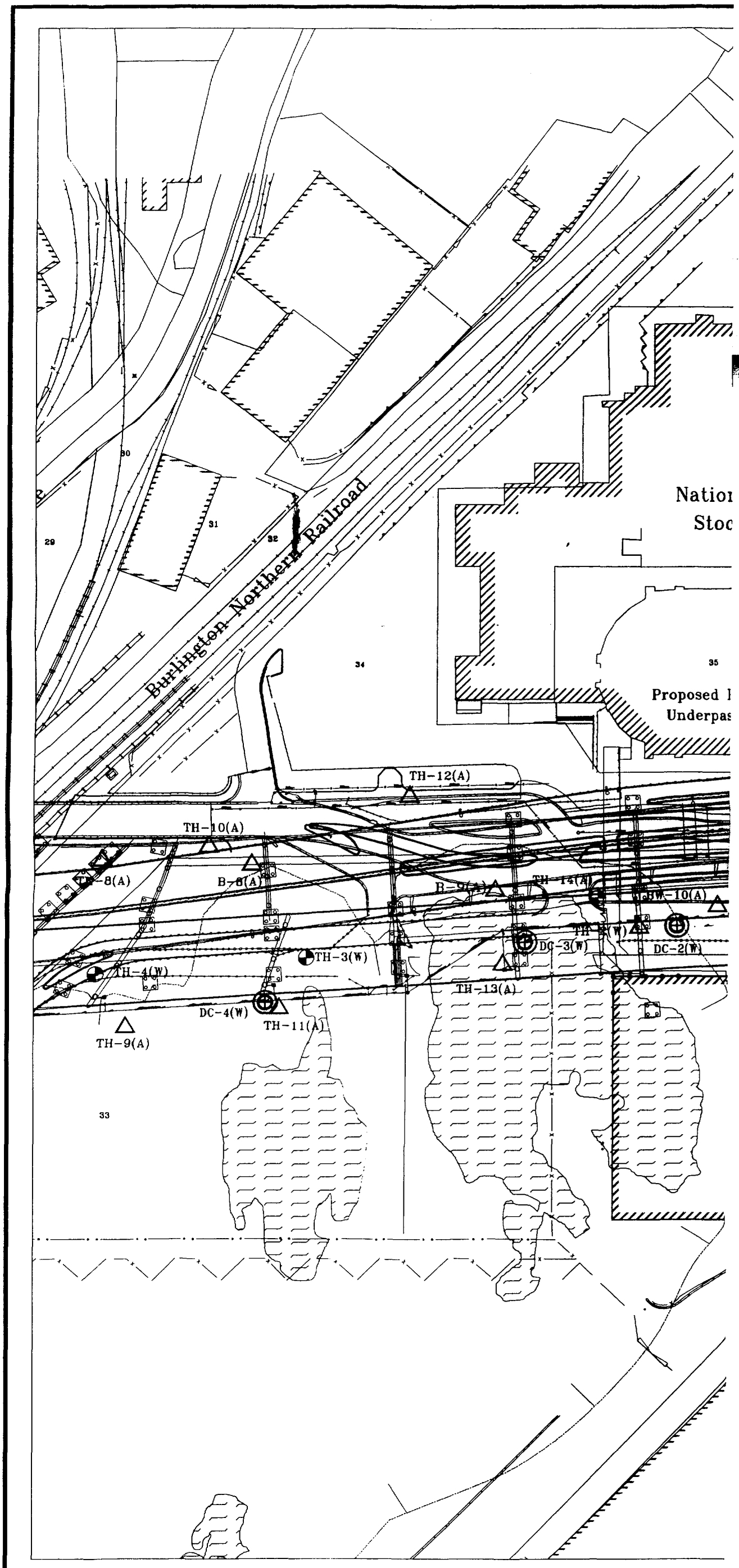
Site Street Address I-70/Brighton Boulevard, Parcel 49 City Denver

TABLE 4 - SUMMARY OF LABORATORY ANALYTICAL RESULTS FOR WATER SAMPLES

** Ground water not encountered during site activities. No ground water samples collected.

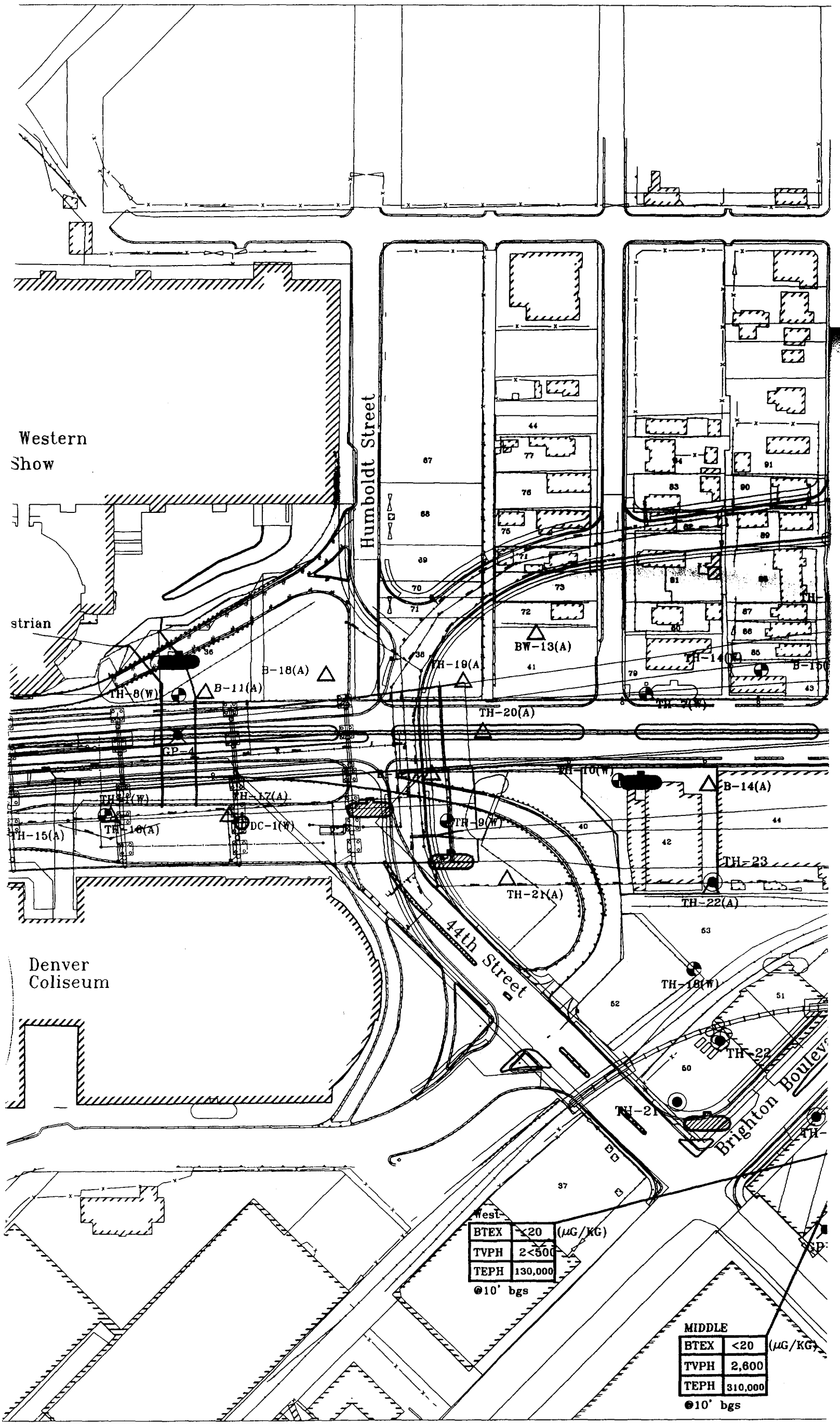
APPENDIX B

FIGURES



Explanation

- WSSB-(W) — Washington Street Shallow Soil Boring (Walsh, 1997)
- DC-(W) — Denver Coliseum Area Test Holes (Walsh, 1997)
- DC-2,3,4(W) — Denver Coliseum Area Test Holes (Walsh, 1997) Completed as Monitor Wells
- TH-(W) — Walsh Monitor Well (1991)
- TH-(A) B-(A) — Aguirre Geotechnical Hole (1994,1995)
- GP-1 — Walsh Geoprobe Soil
- TH-19 — Walsh Test Hole, 199
- 33 — Approximate Property and ID Number
- Former Aboveground
- Excavated Area (1948



ple Site, 1998

undary

rage Tank(s)

Photo)

Former Underground Storage Tank(s)

Underground Storage Tank(s) - Removal Unknown

Underground Storage Tank(s)

Former Barrel Storage

Approximate Location of Former Gas Station
Tank Type (UST or AST) Unknown, UST Removal Unknown

µG/KG Micrograms Per Kilogram

Proposed sidewal

Proposed curbs

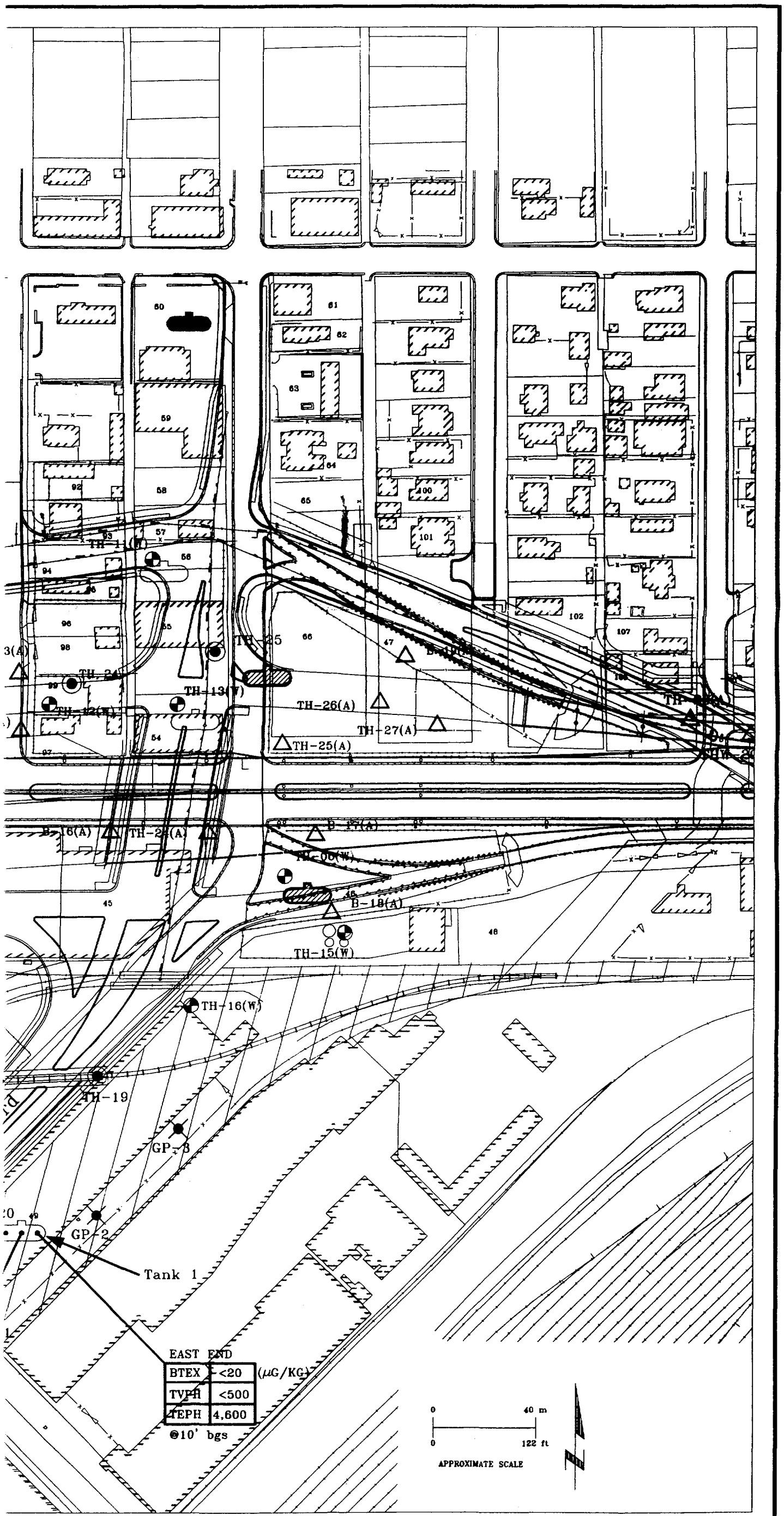
Proposed retaini

Proposed storm

Proposed gas

Proposed telephc

Proposed water l



s and riprap

ıd gutters

g walls

nd/or sanitary sewers

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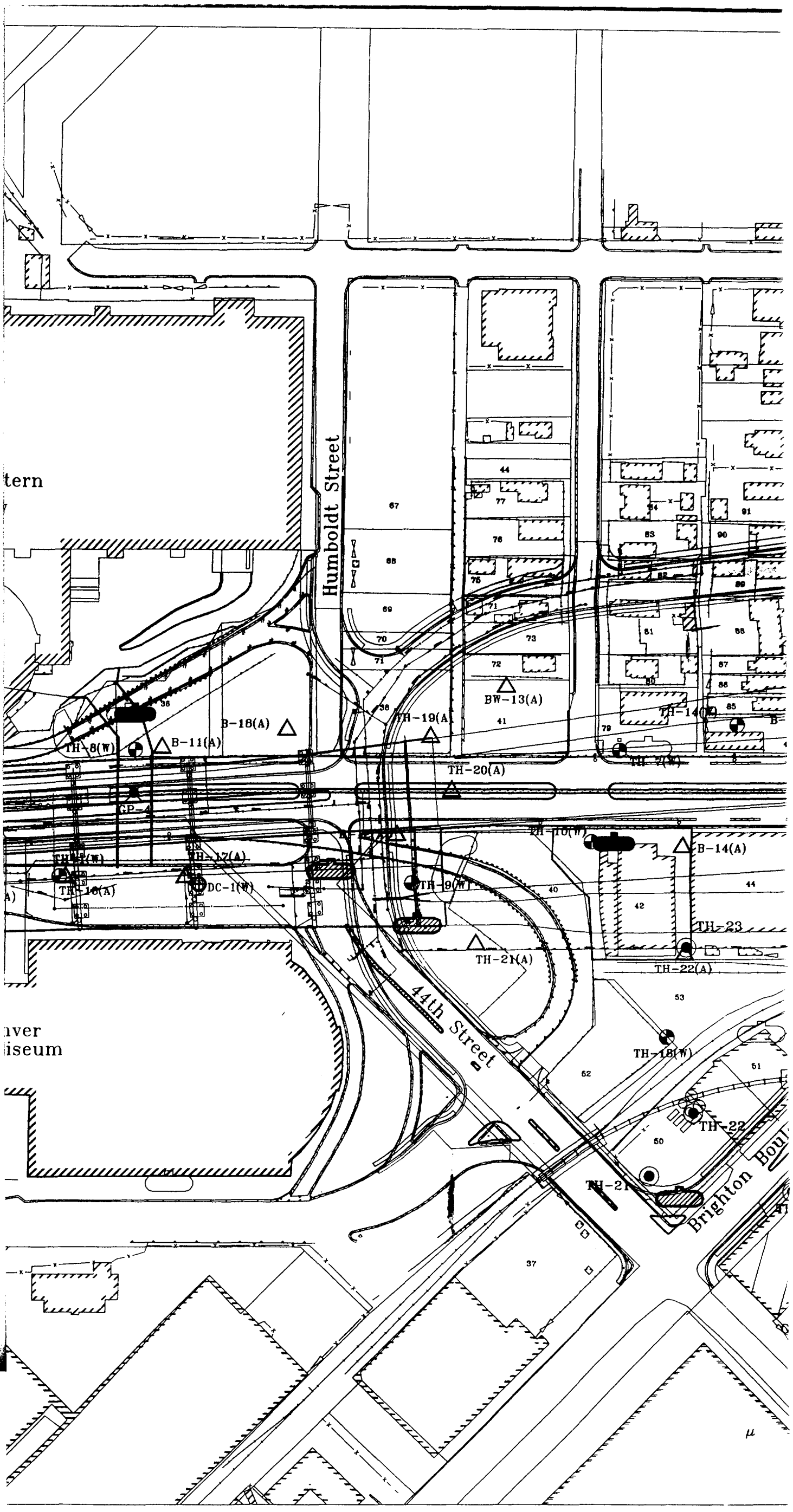
EXCAVATION SAMPLE LOCATION MAP
Parcel 49, Tank 1

Job 3023-010	Date 12/98	Figure 2



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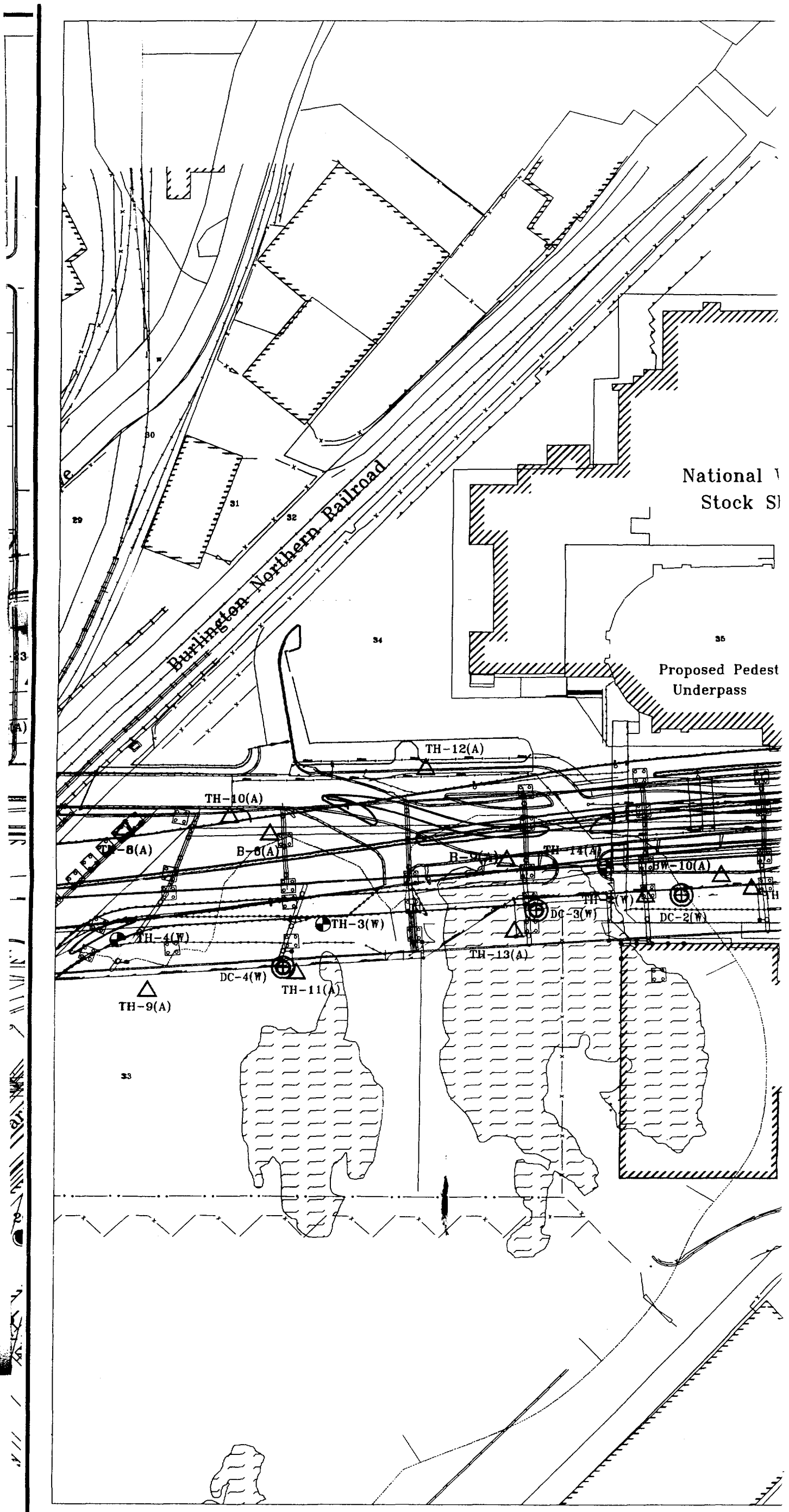
- Former Underground Storage Tank(s)
- Underground Storage Tank(s) – Removal Unknown
- Underground Storage Tank(s)
- Former Barrel Storage
- Approximate Location of Former Gas Station Tank Type (UST or AST) Unknown, UST Removal Unknown

- Proposed sidew
- Proposed curbs
- Proposed retain
- Proposed storm
- Proposed gas
- Proposed teleph
- Proposed water



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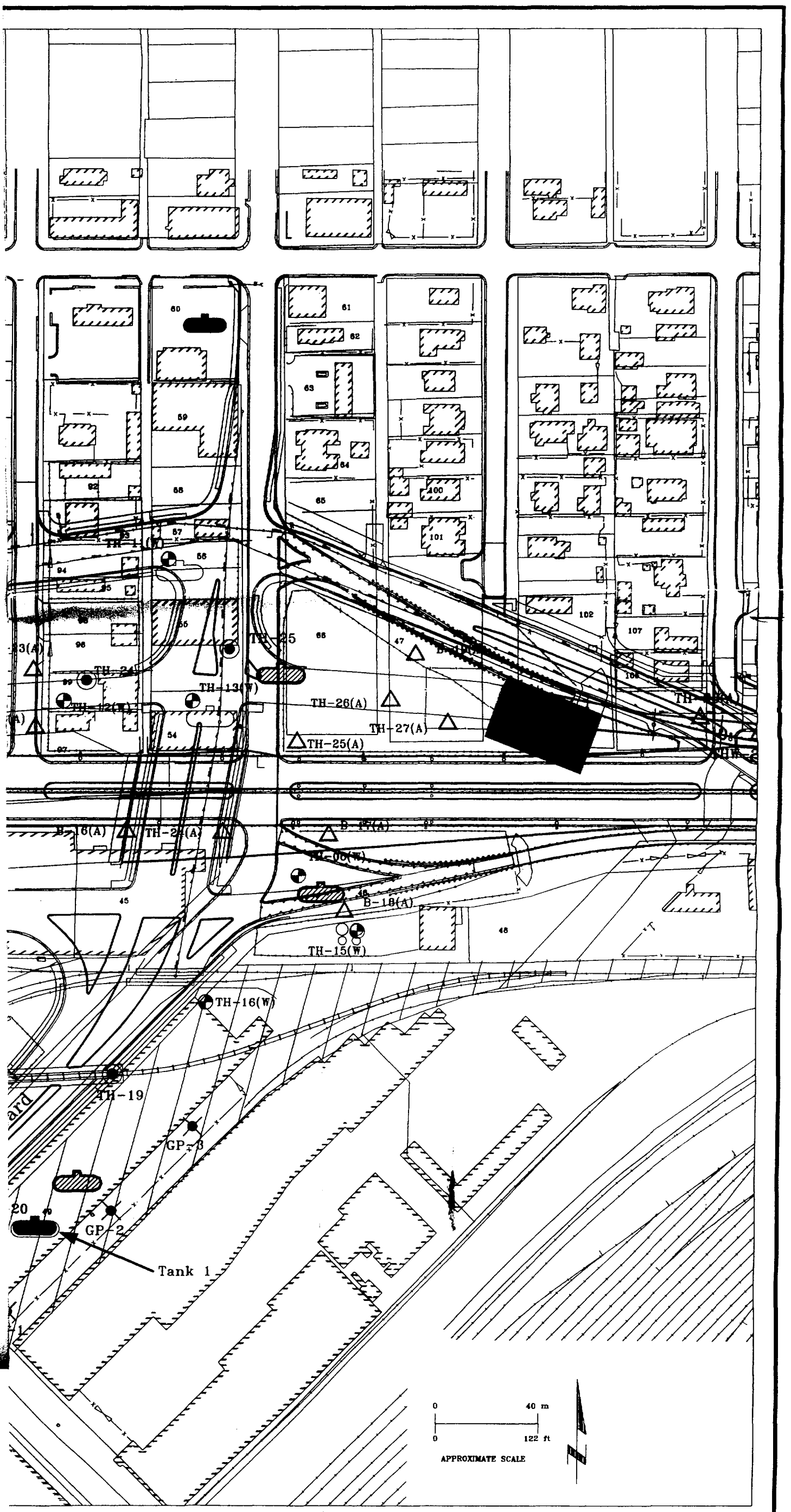

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Environmental Scientists and Engineers, Inc.

SITE MAP, PARCEL 49, TANK 1

Job 3023-010	Date 12/98	Figure 1

APPENDIX C

LABORATORY RESULTS

Petroleum Hydrocarbons Report

ORIGINAL

3023-010, Spoils Pile, Tank1

EPA Method:	8021B/mod. 8015/mod. 8100	Analyst:	DPD
Lab Sample ID:	99-1-15-1	Volatiles Date Analyzed:	01/15/99
Matrix:	Soil	Date Extracted:	01/18/99
Tag Number:	58524	Extractables Date Analyzed:	01/19/99
Date Sampled:	01/13/99	Units:	µg/Kg

Volatiles Dilution Factor: 2.5

Extractables Dilution Factor: 5

Analyte	CAS Number	Concentration	Reporting Limits	Qualifier
Benzene	71-43-2		12.5	U
Toluene	108-88-3	21	12.5	
Ethylbenzene	100-41-4	58	12.5	
Total Xylenes	1330-20-7	300	12.5	
Total Volatile Hydrocarbons	NA	110,000	1250	J
Total Extractable Hydrocarbons	NA	4,800,000	15000	

Surrogate Compound	%Recovery
(SS) a,a,a-Trifluorotoluene	102 %
(SS) Fluorobenzene	90 %
(SS) o-Terphenyl	101 %

Qualifiers:

"U" Indicates compound was searched for and not detected at or above the method detection limit.
"B" Indicates compound was found in the method blank and has been corrected.
"J" Indicates compound was identified out of the method working limits and should be considered an estimated value.
" * " Indicates surrogate is outside of recovery limits due to matrix effect.

Analyst: Dongping Sun

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Environmental Scientists and Engineers, Inc.

à Order # 99-01-124 Walsh Environmental Inc. Page 3
ANALYTICA, INC. TEST RESULTS by SAMPLE

à

à Sample: 01A TANK 1 MIDDLE Tag# 58531 Collected: 01/13/99 Matrix: SOIL

à	Test Description	Method	Result	Q	Limit	Units	Analyzed
à	Volatiles by GC/MS	SW 8260B					
à	Dichlorodifluoromethane		ND		5.0	ug/Kg	01/27/99
à	Chloromethane		ND		5.0	ug/Kg	01/27/99
à	Vinyl Chloride		ND		5.0	ug/Kg	01/27/99
à	Bromomethane		ND		5.0	ug/Kg	01/27/99
à	Chloroethane		ND		5.0	ug/Kg	01/27/99
à	Trichlorofluoromethane		ND		5.0	ug/Kg	01/27/99
à	1,1-Dichloroethene		ND		5.0	ug/Kg	01/27/99
à	Trichlorotrifluoroethane		ND		5.0	ug/Kg	01/27/99
à	Methylene Chloride		7.2	B	2.0	ug/Kg	01/27/99
à	trans-1,2-Dichloroethene		ND		2.0	ug/Kg	01/27/99
à	1,1-Dichloroethane		ND		2.0	ug/Kg	01/27/99
à	2,2-Dichloropropane		ND		2.0	ug/Kg	01/27/99
à	cis-1,2-Dichloroethene		ND		2.0	ug/Kg	01/27/99
à	Bromochloromethane		ND		2.0	ug/Kg	01/27/99
à	Chloroform		ND		2.0	ug/Kg	01/27/99
à	1,1,1-Trichloroethane		ND		2.0	ug/Kg	01/27/99
à	Carbon Tetrachloride		ND		2.0	ug/Kg	01/27/99
à	1,1-Dichloropropene		ND		2.0	ug/Kg	01/27/99
à	Benzene		ND		2.0	ug/Kg	01/27/99
à	1,2-Dichloroethane		ND		2.0	ug/Kg	01/27/99
à	Trichloroethene		0.75	J	2.0	ug/Kg	01/27/99
à	1,2-Dichloropropane		ND		2.0	ug/Kg	01/27/99
à	Dibromomethane		ND		2.0	ug/Kg	01/27/99
à	Bromodichloromethane		ND		2.0	ug/Kg	01/27/99
à	cis-1,3-Dichloropropene		ND		2.0	ug/Kg	01/27/99
à	Toluene		0.96	J	2.0	ug/Kg	01/27/99
à	trans-1,3-Dichloropropene		ND		2.0	ug/Kg	01/27/99
à	1,1,2-Trichloroethane		ND		2.0	ug/Kg	01/27/99
à	Tetrachloroethene		ND		2.0	ug/Kg	01/27/99
à	1,3-Dichloropropane		ND		2.0	ug/Kg	01/27/99
à	Dibromochloromethane		ND		2.0	ug/Kg	01/27/99
à	1,2-Dibromoethane		ND		2.0	ug/Kg	01/27/99
à	Chlorobenzene		ND		2.0	ug/Kg	01/27/99
à	Ethylbenzene		ND		2.0	ug/Kg	01/27/99
à	1,1,1,2-Tetrachloroethane		ND		2.0	ug/Kg	01/27/99
à	m,p-Xylenes		1.3	J	2.0	ug/Kg	01/27/99
à	o-Xylene		0.49	J	2.0	ug/Kg	01/27/99
à	Styrene		ND		2.0	ug/Kg	01/27/99
à	Bromoform		ND		2.0	ug/Kg	01/27/99
à	Isopropylbenzene		ND		2.0	ug/Kg	01/27/99
à	Bromobenzene		ND		2.0	ug/Kg	01/27/99
à	n-Propylbenzene		ND		2.0	ug/Kg	01/27/99
à	1,1,2,2-Tetrachlorethane		ND		2.0	ug/Kg	01/27/99
à	1,2,3-Trichloropropane		ND		5.0	ug/Kg	01/27/99
à	2-Chlorotoluene		ND		2.0	ug/Kg	01/27/99
à	1,3,5-Trimethylbenzene		ND		2.0	ug/Kg	01/27/99
à	4-Chlorotoluene		ND		2.0	ug/Kg	01/27/99

Order # 99-01-124 Walsh Environmental Inc. Page 4
ANALYTICA, INC. TEST RESULTS by SAMPLE

Sample: 01A TANK 1 MIDDLE Tag# 58531 Collected: 01/13/99 Matrix: SOIL

Test Description	Method	Result	Q	Limit	Units	Analyzed
Volatiles by GC/MS	SW 8260B	(continued from previous page)				
tert-Butylbenzene		ND		2.0	ug/Kg	01/27/99
1,2,4-Trimethylbenzene		0.54	J	2.0	ug/Kg	01/27/99
sec-Butylbenzene		ND		2.0	ug/Kg	01/27/99
4-Isopropyltoluene		ND		2.0	ug/Kg	01/27/99
1,3-Dichlorobenzene		ND		2.0	ug/Kg	01/27/99
1,4-Dichlorobenzene		ND		2.0	ug/Kg	01/27/99
n-Butylbenzene		ND		2.0	ug/Kg	01/27/99
1,2-Dichlorobenzene		ND		2.0	ug/Kg	01/27/99
1,2-Dibromo-3-chloropropane		ND		5.0	ug/Kg	01/27/99
1,2,4-Trichlorobenzene		ND		2.0	ug/Kg	01/27/99
Hexachlorobutadiene		ND		2.0	ug/Kg	01/27/99
Napthalene		ND		5.0	ug/Kg	01/27/99
1,2,3-Trichlorobenzene		ND		2.0	ug/Kg	01/27/99
Acetone		ND		50	ug/Kg	01/27/99
Acrylonitrile		ND		50	ug/Kg	01/27/99
2-Butanone		ND		50	ug/Kg	01/27/99
Carbon Disulfide		ND		5.0	ug/Kg	01/27/99
trans-1,4-Dichloro-2-butene		ND		50	ug/Kg	01/27/99
2-Chloroethyl Vinyl Ether		ND		50	ug/Kg	01/27/99
2-Hexanone		ND		10	ug/Kg	01/27/99
Iodomethane		ND		5.0	ug/Kg	01/27/99
4-Methyl-2-pentanone		ND		10	ug/Kg	01/27/99
Vinyl Acetate		ND		50	ug/Kg	01/27/99
tert-Butyl methyl ether		ND		2.0	ug/Kg	01/27/99
SURROGATES, % Recovery						
Dibromofluoromethane		112		Min: 80	Max: 120	
Toluene d-8		110		Min: 81	Max: 117	
p-Bromofluorobenzene		118		Min: 74	Max: 121	

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à THE FOLLOWING CODES APPLY TO THE ANALYTICAL REPORT

RESULT field...
ND = not detected at the reported limit
NA = analyte not applicable (see case narrative/methods for discussion)

Q (qualifier) field...
GENERAL:
* = Recovery or %RPD outside method specifications
H = value is estimated due to analysis run outside EPA holding times
E = reported concentration is above the instrument calibration range
D = analyte was diluted to bring within instrument calibration range or to remove matrix interferences
ORGANIC ANALYSIS DATA QUALIFIERS:
B = analyte was detected in the laboratory method blank
J = analyte was detected above the instrument detection limit (IDL) but below the analytical reporting limit (CRDL)
INORGANIC ANALYSIS DATA QUALIFIERS:
B = analyte was detected above the instrument detection limit (IDL) but below the analytical reporting limit (CRDL)
W = post digestion spike did not meet criteria (85-115%)
S = reported value determined by the Method of Standard Additions

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à 8260_S: VOLATILE ORGANIC COMPOUNDS (GC/MS) METHOD: 8260B

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ANALYTICA, INC. DATES REPORT

Sample: 01A TANK 1 MIDDLE Tag# 58531 Matrix: SOIL

Analysis	Method	Collected	Received	TCLP date
Volatiles by GC/MS	SW 8260B	01/13/99	01/22/99	NA

à Order # 99-01-152 Walsh Environmental Inc. Page 3
ANALYTICA, INC. TEST RESULTS by SAMPLE

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à Sample: 01A SPOILS TANK1 TAG #58524 Collected: 01/13/99 Matrix: SOIL

à	Test Description	Method	Result	Q	Limit	Units	Analyzed
à	Ignitability	EPA 1010	>200		47	Deg F/1atm	01/27/99
à	Paint Filter Test	SW 9095	ND		0.10	% Free liq	01/27/99

Sample: 01A SPOILS TANK1 TAG #58524 Matrix: SOIL

Analysis	Method	Collected	Received	TCLP dat
Ignitability	EPA 1010	01/13/99	01/25/99	NA
Paint Filter Test	SW 9095	01/13/99	01/25/99	NA